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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,107	07/17/2006	Luis Angel Barragan Perez	ZTP03P01636	1737
24131 7590 05212008 LERNER GREENBERG STEMER LLP P O BOX 2480			EXAMINER	
			CHANG, JOSEPH	
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2817	
			MAIL DATE	DELIVERY MODE
			05/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/578,107 BARRAGAN PEREZ ET AL Office Action Summary Examiner Art Unit Joseph Chang 2817 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 7-13 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 7-13 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 03 May 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 5/3/06

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 8213163.

Regarding claims 7-9, the JP 8213163 reference discloses a method of of operating a frequency converter circuit (Fig 1) having at least two outputs (inputs to 4a and 4b) respectively connected to a load (coils 4a and 4b), the method which comprises: operating a first output at a first switching frequency and simultaneously operating a second output at a second switching frequency different ("within 1KHz" see Abstract) from the first switching frequency to produce noise having a frequency generated by a superposition of the first switching frequency and the second switching frequency; operating the converter circuit to set the frequency of the noise lower than a first cut-off frequency and/or higher than a second cut-off frequency (this method claims reciting the functionality of the frequency converter circuit are inherently present in the circuit of the JP reference because the applicant circuit is substantially the same as the one in the JP 8213163 reference).

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Claims 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Hofstetter et al., US 5,932,934.

Hofstetter et al. discloses a method of operating a frequency converter circuit (Fig 5) having at least two outputs (16, 32) respectively connected to a load (10), the method which comprises: operating a first output at a first switching frequency and simultaneously operating a second output at a second switching frequency different (Col. 2, line 23) from the first switching frequency to produce noise having a frequency generated by a superposition ("combination" Col.2, line 13) of the first switching frequency and the second switching frequency (Col. 2, lines 9-46); operating the converter circuit to set the frequency of the noise lower than a first cut-off frequency and/or higher than a second cut-off frequency (use of low pass filter, Col. 3, lines 27-40).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 8213163

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As noted above, the JP 8213163 reference discloses a method of operating a frequency converter circuit as recited in the claims except regulating an electrical power by a relative switch-on time, determining cut-off frequency depending on a level of the noise or a total electrical power of the output, or the cut-off at 2 and 14 KHz. Although such features are not disclosed, one of the ordinary skill in the art would recognize that such features are either inherently present in the circuitry due to substantially identical structure or obvious based on power saving consideration, or audio frequency eliminating consideration.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph Chang/ Primary Examiner, Art Unit 2817